

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-289860

(43)Date of publication of application : 07.11.1995

(51)Int.Cl.

B01D 63/02

B01D 63/00

B01D 65/02

B01D 71/42

(21)Application number : 06-086585

(71)Applicant : TORAY IND INC

(22)Date of filing : 25.04.1994

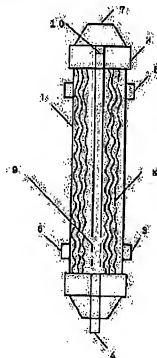
(72)Inventor : NISHIMURA TETSUO
YAMAMURA HIROYUKI
SEKI TAKASHI

(54) CLEANING METHOD OF HOLLOW FIBER MEMBRANE MODULE

(57)Abstract:

PURPOSE: To optimize the cleaning time, cleaning interval, and amt. of air for cleaning and to decrease the cleaning time by discharging water while the inside of the chamber is pressurized after air scrubbing is performed.

CONSTITUTION: When raw water is introduced through a raw liquid supply port 3 of a porous hollow fiber membrane module, the SS component and fine particles are separated by filtering with fine pores on the surface of the hollow fiber membrane 8 and only clear water permeates through the membrane and is discharged through an exit 7. When the filtering pressure is increased, the supply port 3 is closed and an air supply port 4 and a deaerating port 5 for cleaning are opened to perform air scrubbing so as to drop the deposited matter on the membrane by vibration. Then the deaerating port is closed so that the cleaning liquid in the chamber 1 is pressurized by the cleaning air into a pressurized state. Then, a discharge port 6 is opened to discharge water.



LEGAL STATUS